



NEV AMERICA

US DEPARTMENT OF ENERGY FIELD OPERATIONS PROGRAM



2002 Global Electric Motorcars E825 Long Bed Utility VEHICLE SPECIFICATIONS

PURPOSE-BUILT VEHICLE

Base Vehicle: 2002 Global Electric
Motorcars E825
Long Bed Utility
VIN: TEST1001LG01
Seatbelt Positions: Two
Standard Features:
Front Wheel Drive
Four-Wheel Drum Brakes
Regenerative Braking With Coast Down
and Over Speed
Three-Point Safety Belts
Speedometer
Odometer
State-Of-Charge Meter²
Back-up Alarm
Traction Control
On Board Battery Charger

BATTERY

Manufacturer: Trojan
Type: 30XHS Flooded Lead Acid
Number of Modules: 6
Weight of Modules: 30.0 kg
Weight of Pack(s): 180.0 kg
Pack(s) Location: Under Seat and
Under Front Hood
Nominal Module Voltage: 12V
Nominal System Voltage: 72V
Nominal Capacity (C/2): 79 Ah

WEIGHTS

Design Curb Weight: 1240 lb
Delivered Curb Weight: 1239 lb
Distribution F/R: 61/39 %
GVWR: 2300 lb
GAWR F/R: 1408/892 lb
Payload: 1064 lb
Performance Goal: 400 lb

DIMENSIONS

Wheelbase: 101.0 inches
Track F/R: 52.5/52.5 inches
Length: 144.0 inches
Width: 55.0 inches
Height: 69.5 inches
Ground Clearance: 4.3 inches
Performance Goal: 5.0 inches

CHARGER

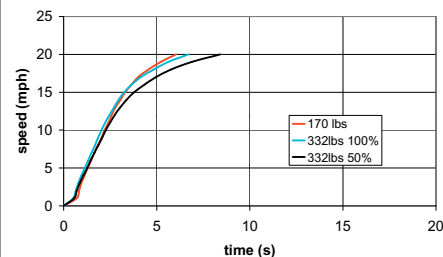
Location: On-board
Type: Conductive
Input Voltages: 115/230 VAC

TIRES

Tire Mfg: Nankang
Tire Model: NY361
Tire Size: 165/70R12
Tire Pressure: 35 psi
Spare Installed: No

PERFORMANCE STATISTICS

Acceleration



Acceleration (0-20 mph) @ 332 lbs Payload

At 100% SOC: 5.9 seconds
At 50% SOC: **7.7 seconds**
Performance Goal: 6.0 seconds

Maximum Speed @ 170 lbs Payload (FMVSS 49 CFR 571.500 S5.a)

At 100%: 23.9 mph
Performance goal ≤ 25 mph

Maximum Speed @ 332 lbs Payload

At 100% SOC: 24.3 mph
At 50% SOC: 23.9 mph

Range At Maximum Speed¹

Range: 36.2 miles
Energy Used: 4.24 kWh
Average Power: 2.93 kW
Efficiency: 117.3 Wh-DC/mile
Specific Energy: 23.6 Wh/kg

Braking From 20 mph

Controlled Dry: 22 feet
Controlled Wet: 23 feet
Panic Wet: 20 feet
Course Deviation: 0.0 feet

Handling

Average time: 74.1 seconds
Average NEV Time⁵: 77.3 seconds

Gradeability (Calculated)

Maximum Speed @ 3%: 19.9 mph
Maximum Speed @ 6%: 17.6 mph
Maximum Grade: 23.5 %

Charging Efficiency:

Efficiency: 131.4 Wh - AC/mi
Energy Cost: @ \$0.10/kWh: \$0.013 mi

Charger

Max Ground Current: <0.01 mA
Max Battery Leakage : <0.01 MIU
Max DC Charge Current: 11.5 A
Max AC Charge Current: 11.6 A
Peak Demand: 971 W
Time to Recharge: 9.4 Hours
Performance Goal: 100% SOC within
12 hours

TEST NOTES:

- Vehicle was operated at maximum attainable speed until 18 mph could no longer be maintained.
- SOC Meter accuracy did not meet NEV America performance goal. Modifications to be performed by manufacturer. (NCR NTP-007-1LG01-002).
- Rough Road testing showed minor damage to front shocks. Modifications to be performed by manufacturer. (NCR NTP-007-1LG01-001)
- Rough Road testing showed signs of water seepage. Modifications to be performed by manufacturer. (NCR NTP-007-1LG01-003)
- Average handling time was determined by comparing 10 NEVS that were enrolled during the first NEV America Program

This vehicle meets all EV America Minimum Requirements listed on back.

Values in red indicate the Performance Goal was not met. • All Power and Energy Values are DC unless otherwise specified.